

19. Illustrate the six steps involved in creating a Servlet program with an example.
20. Elaborate on the Swing package and its component classes in detail.

NOVEMBER/DECEMBER 2024

**23PCS23 — ADVANCED JAVA
PROGRAMMING**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. State the significance of event handling in Java programming.
2. What is Networking? Give any two advantages of Networking in Java.
3. Define Object Serialization and its importance in distributed applications.
4. List the features of RMI.
5. State the importance of JDBC in Java.
6. Brief the process of database search in Java applications using JDBC.
7. How does a Java Servlet differ from CGI programming?
8. Write a short note on the methods involved in the Life cycle of JSP.



9. What is the purpose of JAR file format creation in Java programming?
10. State the key features of Swing programming in Java.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the threading concepts in Java highlighting their significance in concurrent programming.

Or

- (b) Examine the concept of Java Socket programming with example.

12. (a) Examine the RMI security manager and describe the methods associated with it.

Or

- (b) Describe the process of Remote Object Activation and its role in RMI.

13. (a) Illustrate the steps involved in creating multimedia databases in Java.

Or

- (b) Explain the essential components of Java Database Connectivity (JDBC) in detail.

14. (a) Analyze the role of directives in Java Server Pages (JSP) and their significance in web development.

Or

- (b) Organize a comparison chart between Servlet and JSP.

15. (a) Describe the advanced Java programming techniques such as multithreading and reflection.

Or

- (b) Explain the structure of a JAR file and the purpose of each component within it.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. With suitable example, elaborate the Event handling in Java and list down its Classes and Listeners.

17. Discuss in detail about RMI-IIOP development procedure with neat sketch.

18. Develop a program to implement data manipulation between Java and a Database using JDBC.